

CBP and Trade Automated Interface Requirements

Appendix D: Metric Conversion

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U.S. Customs and
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Appendix D

Metric Conversion

This appendix provides formulas to convert between inch-pound units and metric units.

With the adoption by the United States of the Harmonized Tariff Schedule (HTS) and its use of metric units, there will be a natural shift to report quantities on invoices in metric units. Where a need to convert exists, the following metric conversion factors should be used. These factors have been taken from the Federal Standard 376A, a Government-wide standard developed through the Government's Interagency Committee on Metric Policy.

The following chart provides the multipliers for converting from inch-pound units to metric units. Where there is a need to convert from metric units to inch-pound units, divide rather than multiply by the factor.

Quantity	From Inch-Pound Units	To Metric Units	Multiply By
Mass	Ton (Long)	T (Metric Ton)(IT = 1,000 Kg.)	1.016 047
	Ton (Short)	T (Metric Ton)	0.907 184 74
	Lb (Avdo)	Kg	0.453 592 37
	Oz (Troy)	G	31.103 48
Length	Yd	M	0.914 4
	Ft	M	0.304 8
	In	Cm	2.54
	In	Mm	25.4
Area	Yd ²	M ²	0.836 127 4
	Ft ²	M ²	0.092 903 04
	In ²	Cm ²	6.451 6
	In ²	Mm ²	645.16
Volume	Yd ³	M ³	0.764 554 9
	Bbl (Oil)	M ³	0.158 987 3
	(42 Gallons)		0.028 316 85
	Ft ³	M ³	
	Ft ³	L	28.316 85
	Gal (Liq)	L	3.785 412
	Quart (Liq)	L	0.946 352 9
	Pint (Liq)	L	0.473 176 5

Quantity	From Inch-Pound Units	To Metric Units	Multiply By
	Fl Oz	ml	29.573 53
	In ³	Cm ³	
Frequency	C/S (Formerly Cos. Cycles Per Second)	Hz	1.0
Force	Kip	kN	4.448 222
Radioactivity	Curie	MBq (Bq-becquerel)	37 000
Stress	Lbf/in ² (formerly PSI)	MPa	0.006 894 757
	Lbf/in ² (formerly PSI)	KPa	6.894 757
Power	Btu/S	kW	1.055 056
	hp (electric)	kW	0.746
	Btu/H	W	0.293 071 1
Celsius	°F	°C	t°C = (t°F 32)/1.8

Note: The following conversion procedure should be followed for beverages, spirits and vinegar classified in Chapter 22 of the Harmonized Tariff Schedule of the United States Annotated (HTS): Multiply the number of proof-liters by 0.264172 to obtain proof-gallons at 15.56°C (60.F). For wine, multiply the number of proof-liters by 0.26417. This allows for the calculation of the U. S. excise tax.